

Claims

1. A Web-enabled electronics apparatus characterized by including:

5 a Web page acquiring means for acquiring a first Web page including at least a headline and a body of story related to the headline; and

a Web page reconstructing means for extracting said body of story from said first Web page acquired by said
10 Web page acquiring means to create a second Web page including this body of story, and extracting said headline from said first Web page to create a third Web page including this headline and provided with a link to said second Web page.

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2. The Web-enabled electronics apparatus as claimed in Claim 1, characterized in that said Web page reconstructing means includes:

display element position judging means for
20 internally depicting said first Web page and judging positions of individual display elements on said first Web page on the basis of this depicted data;

cluster classifying means for connecting closely related ones of said individual display elements in terms
25 of layout together on the basis of said judged positions of said display elements for classification into several clusters;

specific cluster discriminating means for detecting layout features of said individual clusters and
30 discriminating clusters of said headline and of said body of story on said first Web page from the other clusters

on the basis of a result of this feature detection; and
means for forming groups each including clusters
having a same character attribute which is a display
element, calculating an average of numbers of characters
5 within the respective clusters included in each of the
groups, and determining a group having a high average as
said body of story and a group having a low average as
said headline, as to said discriminated clusters of said
headline and of said body of story.

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3. The Web-enabled electronics apparatus as claimed in
Claim 1, characterized in that:

said specific cluster discriminating means
determines a vertical line on a page which crosses a
15 largest number of said display elements as a center-of-
gravity line, judges layout features of the individual
clusters from at least any of leftward, rightward, middle,
using this determined center-of-gravity line as a
reference, and discriminates clusters with a feature
20 thereof judged as being middle from the other clusters as
the clusters of said headline and of said body of story.

4. The Web-enabled electronics apparatus as claimed in
Claim 1, characterized in that said body of story
25 includes a list of links to articles belonging to said
headline.

5. A Web page processing method for a Web-enabled
electronics apparatus having a processing/computation
30 section and a display section for displaying Web pages,
said Web page processing method includes:

a step of acquiring a first Web page including at least a headline and a body of story related to this headline through a network;

5 a step of extracting said body of story from the acquired first Web page by processing/computing by said processing/computation section to create a second Web page including this body of story; and

a step of extracting said headline from said first Web page by processing/computing by said
10 processing/computation section to create a third Web page including this headline and provided with a link to said second Web page.

6. The Web page processing method of a Web-enabled
15 electronics apparatus as claimed in Claim 5, characterized in that said processing/computation section internally depicts said first Web page, judges positions of individual display elements on said first Web page on the basis of this depicted data, connects closely related
20 ones of said individual display elements in terms of layout together on the basis of the judged positions of said display elements for classification into several clusters, detects layout features of said individual clusters and discriminate clusters of said headline and
25 of said body of story on said first Web page from the other clusters on the basis of a result of this feature detection, forms groups each including clusters having a same character attribute which is a display element, calculates an average of numbers of characters within
30 said respective clusters included in each of the groups, and determines a group having a high average as the body

of story and a group having a low average as said headline, as to the discriminated clusters of said headline and of said body of story.

5 7. The Web page processing method of a Web-enabled
electronics apparatus as claimed in Claim 5,
characterized in that said processing/computation section
determines a vertical line on a page which crosses a
largest number of the display elements as a center-of-
10 gravity line, judges layout features of the individual
clusters from at least any of leftward, rightward, middle,
using this determined center-of-gravity line as a
reference, and discriminates clusters with a feature
thereof judged as being middle from the other clusters as
15 the clusters of the headline and of the body of story.

8. The Web page processing method of a Web-enabled
electronics apparatus as claimed in Claim 5,
characterized in that said body of story includes a list
20 of links to articles belonging to said headline.

9. A program characterized by causing a computer to
function as:

Web page acquiring means for acquiring a first Web
25 page including at least a headline and a body of story
related to this headline, and

Web page reconstructing means for extracting said
body of story from said first Web page acquired by said
Web page acquiring means to create a second Web page
30 including this body of story, and extracting said
headline from said first Web page to create a third Web

page including this headline and provided with a link to said second Web page.

10. The program as claimed in Claim 9, characterized in
5 that said Web page reconstructing means causes the computer to function as:

display element position judging means for internally depicting said first Web page and judging positions of individual display elements on said first
10 Web page on the basis of this depicted data,
cluster classifying means for connecting closely related ones of said display elements in terms of layout together on the basis of the judged positions of said display elements for classification into several clusters,
15 specific cluster discriminating means for detecting layout features of said individual clusters and discriminating clusters of said headline and of said body of story on said first Web page from the other clusters on the basis of a result of this feature detection, and
20 means for forming groups each including clusters having a same character attribute which is a display element, calculating an average of numbers of characters within said respective clusters included in each of the groups, and determining a group having a high average as
25 the body of story and a group having a low average as said headline, as to the discriminated clusters of said headline and of said body of story.

11. The program as claimed in Claim 10, characterized
30 in that said specific cluster discriminating means causes the computer to function as means for determining a

vertical line on a page which crosses a largest number of
said display elements as a center-of-gravity line,
judging layout features of said individual clusters from
at least any of leftward, rightward, middle, using this
5 determined center-of-gravity line as a reference, and
discriminating clusters with a feature thereof judged as
being middle from the other clusters as the clusters of
said headline and of said body of story.

10 12. The program as claimed in Claim 9, characterized in
that said body of story includes a list of links to
articles belonging to said headline.